1 General description

The MPL115A2 is an absolute pressure sensor with a digital I²C output targeting low cost applications. A miniature 5 x 3 x 1.2 mm LGA package is ideally suited for the space constrained requirements of portable electronic devices. Low current consumptions of 5 μ A during Active mode and 1 μ A during Shutdown (Sleep) mode are essential when focusing on low-power applications. The wide operating temperature range spans from – 40 °C to +105 °C to fit demanding environmental conditions.

The MPL115A2 employs a MEMS pressure sensor with a conditioning IC to provide accurate pressure measurements from 50 to 115 kPa. An integrated ADC converts pressure and temperature sensor readings to digitized outputs via a I^2C port. Factory calibration data is stored internally in an on-board ROM. Utilizing the raw sensor output and calibration data, the host microcontroller executes a compensation algorithm to render *Compensated Absolute Pressure* with ±1 kPa accuracy.

The MPL115A2 pressure sensor's small form factor, low power capability, precision, and digital output optimize it for barometric measurement applications.

2 Features

- Digitized pressure and temperature information together with programmed calibration coefficients for host micro use.
- · Factory calibrated
- 50 kPa to 115 kPa absolute pressure
- ±1 kPa accuracy
- 2.375 V to 5.5 V supply
- Integrated ADC
- I²C Interface (operates up to 400 kHz)
- 7-bit I^2C address = 60h
- · Monotonic pressure and temperature data outputs
- Surface mount RoHS compliant package

3 Applications

- Barometry (portable and desktop)
- Altimeters
- Weather stations
- Hard-disk drives (HDD)
- Industrial equipment
- Health monitoring
- · Air control systems



4 Ordering information

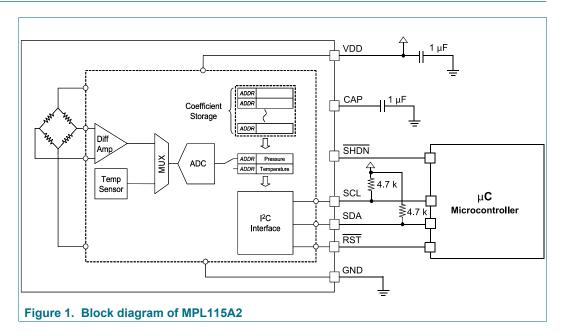
| Table 1. Ordering information | | | | | | |
|-------------------------------|---------|---|-----------|--|--|--|
| Type number | Package | Package | | | | |
| | Name | Description | Version | | | |
| MPL115A2 | TSON8 | LGA 8 I/O, 3 X 5 X 1.25 PITCH, SENSOR 1.2MAX MM PKG | SOT1769-1 | | | |

4.1 Ordering options

| Table 2. | Ordering | options |
|----------|----------|---------|
|----------|----------|---------|

| Device Name | Package Options | # of Ports | | Pressure Type | | | Digital | |
|-------------|--------------------|------------|--------|---------------|-------|--------------|----------|------------------|
| | | None | Single | Dual | Gauge | Differential | Absolute | Interface |
| MPL115A2 | Tray | • | | | | | • | I ² C |
| MPL115A2T1 | Tape & Reel (1000) | • | | | | | • | I ² C |

5 Block diagram



6 **Pinning information**

6.1 Pinning

| | MPL115A2 |
|-----------------------------|----------------------|
| VD | |
| CA | P 2 7 SDA |
| GN | |
| SHD | N 4 5 RST |
| | transparent top view |
| Figure 2. Pin configuration | |

6.2 Pin description

Table 3. Pin description

| Pin | Name | Function |
|-----|--------------------|---|
| 1 | VDD | Power Supply Connection: VDD range is 2.375 V to 5.5 V. |
| 2 | CAP | 1 µF connected to ground. |
| 3 | GND | Ground |
| 4 | SHDN | Shutdown: Connect to GND to disable the device. When in shutdown, the part draws no more than 1 μ A supply current and all communications pins (RST, SCL, SDA) are high impedance. Connect to VDD for normal operation. |
| 5 | RST | Reset: Connect to ground to disable I ² C communications. |
| 6 | NC | No connection |
| 7 | SDA ^[1] | Serial data I/O line |
| 8 | SCL ^[1] | Serial clock input. |

[1] Use 4.7 k Ω pullup resistors for I²C communication.

7 Handling and Board Mount Recommendations

The sensor die is sensitive to light exposure. Direct light exposure through the port hole can lead to varied accuracy of pressure measurement. Avoid such exposure to the port during normal operation.

7.1 Methods of Handling

Components can be picked from the carrier tape using either the vacuum assist or the mechanical type pickup heads. A vacuum assist nozzle type is most common due to its lower cost of maintenance and ease of operation. The recommended vacuum nozzle configuration should be designed to make contact with the device directly on the metal cover and avoid vacuum port location directly over the vent hole in the metal cover of the

device. Multiple vacuum ports within the nozzle may be required to effectively handle the device and prevent shifting during movement to placement position.

Vacuum pressure required to adequately support the component should be approximately 25 inches Hg (85 kPa). This level is typical of in-house vacuum supply. Pickup nozzles are available in various sizes and configurations to suit a variety of component geometries. To select the nozzle best suited for the specific application, it is recommended that the customer consult their pick and place equipment supplier to determine the correct nozzle. In some cases it may be necessary to fabricate a special nozzle depending on the equipment and speed of operation.

Tweezers or other mechanical forms of handling that have a sharp point are not recommended since they can inadvertently be inserted into the vent hole of the device. This can lead to a puncture of the MEMS element that will render the device inoperable.

7.2 Board Mount Recommendations

Components can be mounted using solder paste stencil, screen printed or dispensed onto the PCB pads prior to placement of the component. The volume of solder paste applied to the PCB is normally sufficient to secure the component during transport to the subsequent reflow soldering process. Use of adhesives to secure the component is not recommended, but where necessary can be applied to the underside of the device.

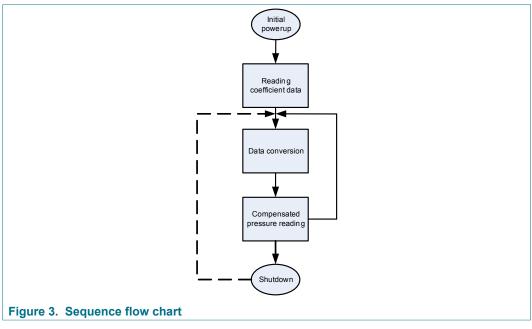
Solder pastes are available in variety of metal compositions, particle size and flux types. The solder paste consists of metals and flux required for a reliable connection between the component lead and the PCB pad. Flux aids the removal of oxides that may be present on PCB pads and prevents further oxidation from occurring during the solder process.

The use of a No-Clean (NC) flux is recommended for exposed cavity components. Using pressure spray, wire brush, or other methods of cleaning is not recommended since it can puncture the MEMS device and render it unusable. If cleaning of the pcb is performed, Water Soluble (WS) flux can be used. However, it is recommended the component cavity is protected by adhesive Kapton tape, vinyl cap or other means prior to the cleaning process. This covering will prevent damage to the MEMS device, contamination, and foreign materials from being introduced into device cavity as result of cleaning processes.

Ultrasonic cleaning is not recommended as the frequencies can damage wire bond interconnections and the MEMS device.

Miniature I²C digital barometer, 50 to 115 kPa

8 Functional description



The MPL115A interfaces to a host (or system) microcontroller in the user's application. All communications are via I^2C . A typical usage sequence is as follows:

Initial power-up

All circuit elements are active. I²C port pins are high impedance and associated registers are cleared. The device then enters standby mode.

Reading coefficient data

The user then typically accesses the part and reads the coefficient data. The main circuits within the slave device are disabled during read activity. The coefficients are usually stored in the host microcontoller local memory but can be re-read at any time.

It is not necessary to read the values stored in the host microcontroller multiple times because the coefficients within a device are constant and do not change. However, note that the coefficients will be different from device to device, and cannot be used for another part.

Data conversion

This is the first step that is performed each time a new pressure reading is required which is initiated by the host sending the CONVERT command. The main system circuits are activated (wake) in response to the command and after the conversion completes, the result is placed into the Pressure and Temperature ADC output registers.

The conversion completes within the maximum conversion time, tc (see row $\underline{7}$, in <u>Table 10</u>). The device then enters standby mode.

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Miniature I²C digital barometer, 50 to 115 kPa

Compensated pressure reading

After the conversion has been given sufficient time to complete, the host microcontroller reads the result from the ADC output registers and calculates the Compensated Pressure, a barometric/atmospheric pressure value which is compensated for changes in temperature and pressure sensor linearity. This is done using the coefficient data from the MPL115A and the raw sampled pressure and temperature ADC output values, in a compensation equation (detailed later). Note that this is an absolute pressure measurement with a vacuum as a reference.

From this step the host controller may either wait and then return to the Data Conversion step to obtain the next pressure reading or it may go to the Shutdown step.

Shutdown

For longer periods of inactivity the user may assert the SHDN input by driving this pin low to reduce system power consumption. This removes power from all internal circuits, including any registers. In the shutdown state, the Pressure and Temperature registers will be reset, losing any previous ADC output values.

This step is exited by taking the \overline{SHDN} pin high. Wait for the maximum wakeup time, tw (see row 8, in Table 10), after which another pressure reading can be taken by transitioning to the data Conversion step.

| Address | Name | Description |
|---------|-------------------------|---|
| 00h | Padc_MSB | 10-bit Pressure ADC output value MSB |
| 01h | Padc_LSB | 10-bit Pressure ADC output value LSB |
| 02h | Tadc_MSB | 10-bit Temperature ADC output value MSB |
| 03h | Tacd_LSB | 10-bit Temperature ADC output value LSB |
| 04h | a0_MSB | a0 coefficient MSB |
| 05h | a0_LSB | a0 coefficient LSB |
| 06h | b1_MSB | b1 coefficient MSB |
| 07h | b1_LSB | b1 coefficient LSB |
| 08h | b2_MSB | b2 coefficient MSB |
| 09h | b2_LSB | b2 coefficient LSB |
| 0Ah | c12_MSB | c12 coefficient MSB |
| 0Bh | c12_LSB | c12 coefficient LSB |
| 0Ch | reserved ^[1] | — |
| 0Dh | reserved ^[1] | — |
| 0Eh | reserved ^[1] | — |
| 0Fh | reserved ^[1] | _ |

Table 4. Device memory map

Miniature I²C digital barometer, 50 to 115 kPa

| Address | Name | Description |
|---------|----------|---|
| 10h | reserved | — |
| 11h | reserved | — |
| 12h | CONVERT | Start Pressure and Temperature Conversion |

[1] This register is set to 00h. It is reserved, and was previously utilized as Coefficient values, c11 and c22, which were always 00h.

For values with less than 16 bits, the lower LSBs are zero. For example, c12 is 14 bits and is stored into 2 bytes as follows:

c12 MS byte = c12[13:6] = $[c12_{b13}, c12_{b12}, c12_{b11}, c12_{b10}, c12_{b9}, c12_{b8}, c12_{b7}, c12_{b6}]$ c12 LS byte = c12[5:0] & "00" = $[c12_{b5}, c12_{b4}, c12_{b3}, c12_{b2}, c12_{b1}, c12_{b0}, 0, 0]$

8.1 Pressure, temperature and coefficient bit-width specifications

The table below specifies the initial coefficient bit-width specifications for the compensation algorithm and the specifications for Pressure and Temperature ADC values.

| | a0 | b1 | b2 | c12 | Padc | Tadc |
|-----------------|----|----|----|-----|------|------|
| Total Bits | 16 | 16 | 16 | 14 | 10 | 10 |
| Sign Bits | 1 | 1 | 1 | 1 | 0 | 0 |
| Integer Bits | 12 | 2 | 1 | 0 | 10 | 10 |
| Fractional Bits | 3 | 13 | 14 | 13 | 0 | 0 |
| dec pt zero pad | 0 | 0 | 0 | 9 | 0 | 0 |

Table 5. Pressure, temperature and compensation coefficient specifications

Example Binary Format Definitions:

| a0 Signed, Integer Bits = 12, Fractional Bits = 3 : | Coeff a0 = S $I_{11} I_{10} I_9 I_8 I_7 I_6 I_5 I_4 I_3 I_2 I_1 I_0 . F_2 F_1 F_0$ |
|---|---|
| b1 Signed, Integer Bits = 2, Fractional Bits = 13 : | Coeff b1 = S $I_1 I_0$. F ₁₂ F ₁₁ F ₁₀ F ₉ F ₈ F ₇ F ₆ F ₅ F ₄ F ₃ F ₂ F ₁ F ₀ |
| b2 Signed, Integer Bits = 1, Fractional Bits = 14 : | Coeff b2 = S I_0 . $F_{13} F_{12} F_{11} F_{10} F_9 F_8 F_7 F_6 F_5 F_4 F_3 F_2 F_1 F_0$ |
| c12 Signed, Integer Bits = 0, Fractional Bits = 13, dec pt zero pad = 9 : | Coeff c12 = S 0 . 000 000 000 F ₁₂ F ₁₁ F ₁₀ F ₉ F ₈ F ₇ F ₆ F ₅ F ₄ F ₃ F ₂ F ₁ F ₀ |
| Padc Unsigned, Integer Bits = 10 : | Padc U = I ₉ I ₈ I ₇ I ₆ I ₅ I ₄ I ₃ I ₂ I ₁ I ₀ |
| Tadc Unsigned, Integer Bits =10 : | Tadc U = I ₉ I ₈ I ₇ I ₆ I ₅ I ₄ I ₃ I ₂ I ₁ I ₀ |
| | |

Note: Negative coefficients are coded in 2's complement notation.

8.2 Compensation

The 10-bit compensated pressure output, Pcomp, is calculated as follows:

Miniature I²C digital barometer, 50 to 115 kPa

$$Pcomp = a0 + (b1 + c12 \cdot Tadc) \cdot Padc + b2 \cdot Tadc$$
(1)

Where:

Padc is the 10-bit pressure ADC output of the MPL115A Tadc is the 10-bit temperature ADC output of the MPL115A a0 is the pressure offset coefficient b1 is the pressure sensitivity coefficient b2 is the temperature coefficient of offset (TCO) c12 is the temperature coefficient of sensitivity (TCS)

Pcomp will produce a value of 0 with an input pressure of 50 kPa and will produce a fullscale value of 1023 with an input pressure of 115 kPa.

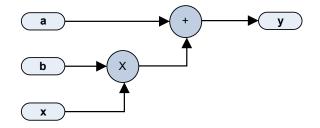
Pressure (kPa) =
$$Pcomp \cdot \left[\frac{115-50}{1023}\right] + 50$$
 (2)

8.3 Evaluation sequence, arithmetic circuits

The following is an example of the calculation for Pcomp, the compensated pressure output. Input values are in **bold**.

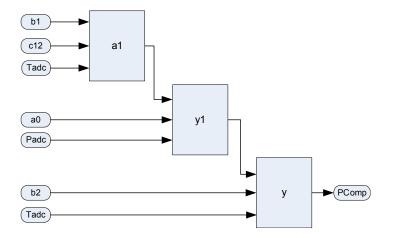
c12x2 = c12 * Tadc a1 = b1 + c12x2 a1x1 = a1 * Padc y1 = a0 + a1x1 a2x2 = b2 * Tadc Pcomp = y1 + a2x2

This can be calculated as a succession of Multiply Accumulates (MACs) operations of the form y = a + b * x:



The polynomial can be evaluated (Equation 1) as a sequence of 3 MACs:

Miniature I²C digital barometer, 50 to 115 kPa



Please refer to NXP application note AN3785 for more detailed notes on implementation.

8.4 I²C device read/write operations

All device read/write operations are memory mapped. Device actions, for example, Start Conversions, are controlled by writing to the appropriate memory address location.

- For I²C the 7-bit device address (from Table 2) has a read/write toggle bit, where the least significant bit is '1' for read operations or '0' for write operations. The Device Address is C0h for a *Write* and the Device Address is C1h for a *Read*.
- The most significant bit in the Command tables below is not used and is don't care (X). In examples given it's set to '0'.

Refer to Sensor I^2C Setup and FAQ Application Note AN4481 for more information on I^2C communication between the sensor and host controller.

Table 6. I²C write commands

Legend: X - don't care

| Command | Binary | HEX ^[1] |
|-----------------------------|-----------|--------------------|
| Devices Address + Write bit | 1100 0000 | C0h |
| Start Conversions | X001 0010 | 12h |

 The command byte needs to be paired with a 00h as part of the I²C exchange to complete the passing of Start Conversions.

The actions taken by the part in response to each command are as follows:

Table 7. I²C write command description

| Command | Action Taken |
|-------------------|--|
| Start Conversions | Wake main circuits. Start clock. Allow supply stabilization time. Select pressure sensor input. Apply positive sensor excitation and perform A to D conversion. Select temperature input. Perform A to D conversion. Load the Pressure and Temperature registers with the result. Shut down main circuits and clock. |

| Legenu. X - dont care | | | |
|------------------------------|-----------|-----|--|
| Command | Binary | HEX | |
| Device Address + Read bit | 1100 0001 | C1h | |
| Read Pressure MSB | X000 0000 | 00h | |
| Read Pressure LSB | X000 0001 | 01h | |
| Read Temperature MSB | X000 0010 | 02h | |
| Read Temperature LSB | X000 0011 | 03h | |
| Read Coefficient data byte 1 | X000 0100 | 04h | |

Table 8. I²C read command description Legend: X - don't care

These are MPL115A2 I²C commands to read coefficients, execute pressure and temperature conversions, and to read pressure and temperature data. The sequence of the commands for the interaction is given as an example to operate the MPL115A2.

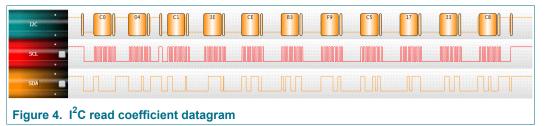
Utilizing this gathered data, an example of the calculating the compensated pressure reading is given in floating point notation.

I²C commands (simplified for communication)

Device Address + write bit "To Write" = C0h Device Address + read bit "To Read" = C1h Command to Write "Convert Pressure and Temperature" = 12h Command to Read "Pressure ADC High byte" = 00h Command to Read "Pressure ADC Low byte" = 01h Command to Read "Temperature ADC High byte" = 02h Command to Read "Temperature ADC Low byte" = 03h Command to Read "Coefficient data byte 1 High byte" = 04h

Read coefficients

[C0h], [04h], [C1h], [3Eh], [CEh], [B3h], [F9h], [C5h], [17h], [33h], [C8h]



MPL115A2

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| a0 coefficient MSB | = 3Eh | | | |
|----------------------------------|----------------|---------------------------|----------|--------------------------|
| a0 coefficient LSB | = CEh | a0 coefficient | = 3ECEh | = 2009.75 |
| | | | | |
| b1 coefficient MSB | = B3h | | | |
| b1 coefficient LSB | = F9h | b1 coefficient | = B3F9h | = -2.37585 |
| | | | | |
| b2 coefficient MSB | = C5h | | | |
| b2 coefficient LSB | = 17h | b2 coefficient | = C517h | = -0.92047 |
| c12 coefficient MSB | = 33h | | | |
| c12 coefficient LSB | = 33h = C8h | c12 coefficient | = 33C8h | = 0.000790 |
| | - Con | CT2 COEMICIENT | - 550011 | - 0.000790 |
| | × I2C | | 12 00 | |
| | · · | | | U |
| | SCL | | | |
| | | | | |
| | SDA | | | |
| | | | | |
| Command to I ² C sta | | | | |
| Figure 5. I ² C Start | conversion d | atagram | | |
| I2C | | | 66 80 L | |
| sa. | | מחחת היה ההתחתה היה מתחתה | | 00000000 0000000 |
| | | | | |
| SDA 🔤 | | | | |
| | | | | |
| Figure 6. I ² C read | results datag | ram | | |
| Pressure MSB | = 66h | | | |
| Pressure LSB | = 80h | Pressure | = 6680h | = 0110 0110 1100 |
| | | | | 0000 |
| | | | | = 410 ADC counts |
| - | | | | |
| Temperature MSB | | T | 7500 | 0444 4440 4400 |
| Temperature LSB | = C0h | Temperature | = 7EC0h | = 0111 1110 1100 0000 |
| | | | | = 507 ADC counts |
| | | | | |
| | | | | |

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8.5 Example of pressure compensated calculation in floating-point notation

| a0 coefficient | = | 2009.75 |
|-----------------|---|----------------|
| b1 coefficient | = | -2.37585 |
| b2 coefficient | = | -0.92047 |
| c12 coefficient | = | 0.000790 |
| | | |
| Pressure | = | 410 ADC counts |
| Temperature | = | 507 ADC counts |

Pressure compensation

$$Pcomp = a0 + (b1 + c12 \cdot Tadc) \cdot Padc + b(c)$$

Using the evaluation sequence

The evaluation sequence is located in <u>Section 8.3</u>.

| c12x2 | = c12 * Tadc | = 0.000790 * 507 | = 0.40053 |
|-------|--------------|----------------------------|--------------|
| a1 | = b1 + c12x2 | = -2.37585 + 0.40053 | = -1.97532 |
| a1x1 | = a1 * Padc | = -1.97532 * 410 | = -809.8812 |
| y1 | = a0 + a1x1 | = 2009.75 + (-809.8812) | = 1199.8688 |
| a2x2 | = b2 * Tadc | = -0.92047 * 507 | = -466.67829 |
| PComp | = y1 + a2x2 | = 1199.8688 + (-466.67829) | = 733.19051 |

Pressure (kPa) =
$$Pcomp \cdot \left[\frac{115-50}{1023}\right] + 50$$

= 96.59 kPa

$$=733.19 \cdot \left[\frac{115-50}{1023}\right] + 50$$

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9 Maximum ratings

Table 9. Maximum ratings

Voltage (with respect to GND unless otherwise noted)

| Symbol | Value | Units |
|-----------------------------|-------------------------------|-------|
| V _{DD} | -0.3 to +5.5 | V |
| SHDN, RST, SDA, SCL | –0.3 to V _{DD} + 0.3 | V |
| Operating Temperature Range | -40 to +105 | °C |
| Storage Temperature Range | -40 to +125 | °C |
| Overpressure | 1000 | kPa |

10 Mechanical and electrical characteristics

Table 10. Mechanical and electrical characteristics

 V_{DD} = 2.375 V to 5.5 V, T_A = -40 °C to +105 °C, unless otherwise noted. Typical values are at V_{DD} = 3.3 V, T_A = +25 °C.

| Ref | Parameters | Symbol | Conditions | Min | Тур | Max | Units |
|---------------------|---|------------------|---|--------------------|------|-------------|-------|
| 1 | Operating Supply Voltage | V _{DD} | | 2.375 | 3.3 | 5.5 | V |
| 2 | Supply Current | I _{DD} | Shutdown (SHDN = GND) | _ | | 1 | μA |
| | | | Standby | _ | 3.5 | 10 | μA |
| | | | Average – at one measurement per second | — | 5 | 6 | μA |
| Press | sure Sensor | | | | | | |
| 3 | Range | | | 50 | | 115 | kPa |
| 4 | Resolution | | | _ | 0.15 | _ | kPa |
| 5 | Accuracy | | –20 °C to 85 °C | — | _ | ±1 | kPa |
| 6 | Power Supply Rejection | | Typical operating circuit at DC | | 0.1 | _ | kPa/V |
| | | | 100 mV p-p 217 Hz square wave plus 100 mV pseudo random noise with 10 MHz bandwidth | | 0.1 | - | kPa |
| 7 | Conversion Time (Start Pressure and Temperature Conversion) | tc | Time between start convert command and data available in the Pressure and Temperature registers | — | 1.6 | 3 | ms |
| 8 | Wakeup Time | tw | Time between leaving Shutdown mode (SHDN goes high) and communicating with the device to issue a command or read data. | _ | 3 | 5 | ms |
| I ² C I/ | O Stages: SCL, SDA | | , | , | | | |
| 9 | SCL Clock Frequency | f _{SCL} | | — | _ | 400 | kHz |
| 10 | Low Level Input Voltage | VIL | | — | _ | $0.3V_{DD}$ | V |
| 11 | High Level Input Voltage | VIH | | 0.7V _{DD} | _ | _ | V |

MPL115A2 Data sheet: technical data

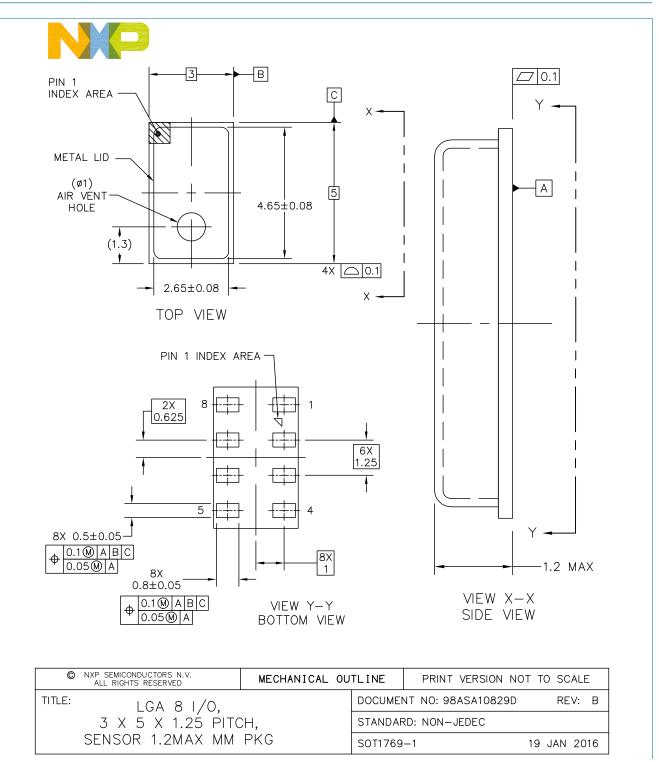
MPL115A2

Miniature I²C digital barometer, 50 to 115 kPa

| Ref | Parameters | Symbol | Conditions | Min | Тур | Мах | Units |
|--------------------|--|-----------------|--|----------|---------|---------|----------|
| I ² C O | utputs: SDA | | | | | | |
| 12 | Data Setup Time | t _{SU} | Setup time from command receipt to ready to transmit | 0 | _ | 0.4 | S |
| I ² C A | ddressing | 1 | 1 | | | 1 | , |
| | 15A2 uses 7-bit addressing, do r 1100000. | es not ackno | wledge the general call address 000000 | 0. Slave | address | has bee | n set to |

Miniature I²C digital barometer, 50 to 115 kPa

11 Package outline



MPL115A2

Miniature I²C digital barometer, 50 to 115 kPa

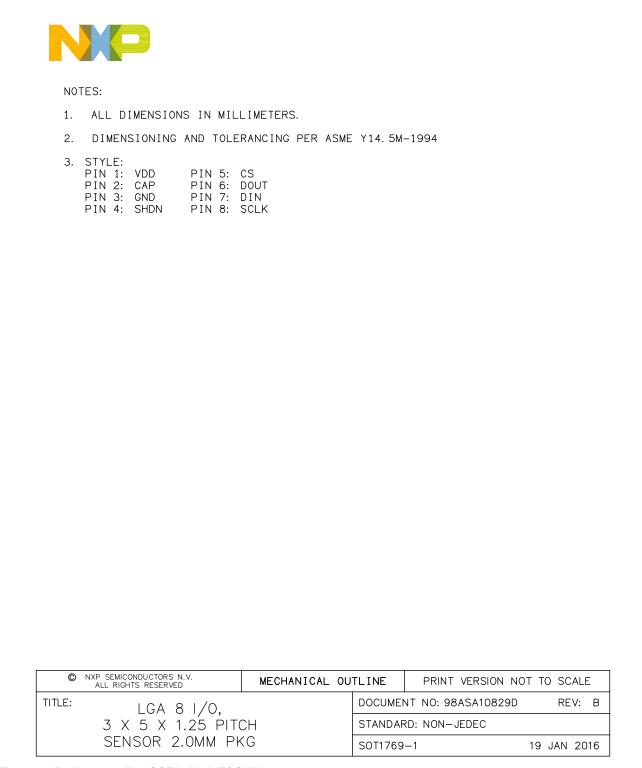
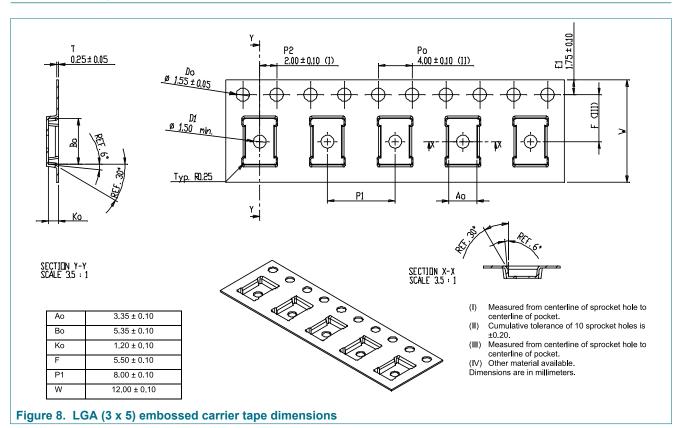


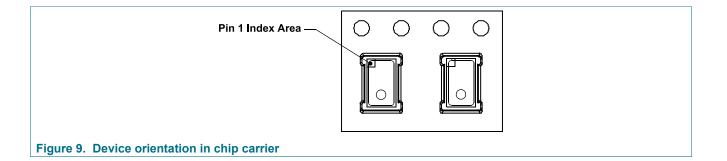
Figure 7. Package outline SOT1769-1 (TSON8)

MPL115A2 Data sheet: technical data

Miniature I²C digital barometer, 50 to 115 kPa

12 Packing information





Miniature I²C digital barometer, 50 to 115 kPa

13 Soldering

- 1. Use SAC solder alloy, i.e., Sn-Ag-Cu, with a melting point of about 217 °C. It is recommended to use SAC305, i.e., Sn-3.0 wt.% Ag-0.5 wt.% Cu.
- 2. Reflow
 - Ramp up rate: 2 to 3 °C/s.
 - Preheat flat (soak): 110 to 130 s.
 - Reflow peak temperature: 250 °C to 260 °C (depends on exact SAC alloy composition).
 - Time above 217°C: 40 to 90s (depends on board type, thermal mass of the board/ quantities in the reflow).
 - Ramp down: 5 to 6 °C/s.
 - Using an inert reflow environment (with O₂ level about 5 to 15 ppm).

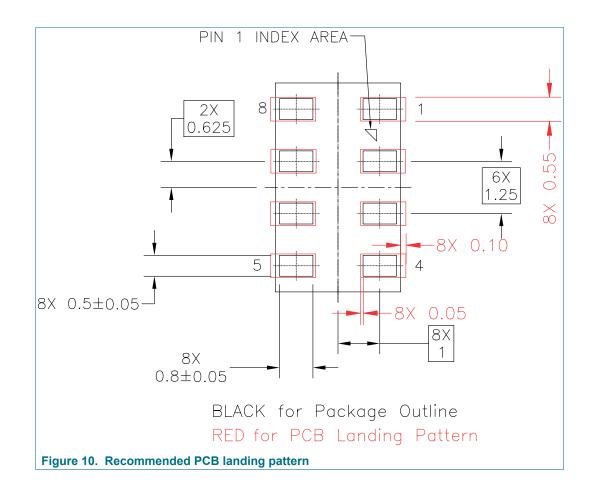
Note: The stress level and signal offset of the device also depends on the board type, board core material, board thickness and metal finishing of the board.

Please refer to NXP application note AN3150, Soldering Recommendations for Pressure Sensor Devices for any additional information.

14 Soldering/landing pad information

The LGA package is compliant with the RoHS standard. It is recommended to use a noclean solder paste to reduce cleaning exposure to high pressure and chemical agents that can damage or reduce life span of the Pressure sensing element.

Miniature I²C digital barometer, 50 to 115 kPa



15 Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes | | |
|----------------|---|---|---------------|--------------|--|--|
| MPL115A2 v.10 | 20171010 | Technical data | — | MPL115A2 v.9 | | |
| Modifications: | of NXP Semico • Legal texts have • Removed the fin • Added <u>Section</u> <u>Recommendation</u> | e been adapted to the new company name where appropriate. st paragraph of <u>Section 7</u> . 7.1 and <u>Section 7.2</u> in <u>Section 7 "Handling and Board Mount</u> | | | | |
| MPL115A2 v.9 | 10/2012 | Technical data | — | MPL115A2 v.8 | | |
| MPL115A2 v.8 | 06/2012 | Technical data | _ | | | |

16 Legal information

16.1 Data sheet status

| Document status ^{[1][2]} | Product status ^[3] | Definition |
|---|-------------------------------|--|
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